FPC 17”/18W”/21W” Series

17” / 18”W / 21”W TFT Touch Panel PC

Quick Reference Guide

1st Ed –02 September 2013

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Part No. E2017FP07A0R

1. Getting Started

1.1 Safety Precautions

Warning!

Always completely disconnect the power cord from your chassis whenever you work with the hardware. Do not make connections while the power is on. Sensitive electronic components can be damaged by sudden power surges. Only experienced electronics personnel should open the PC chassis.

Caution!

Always ground yourself to remove any static charge before touching the CPU card. Modern electronic devices are very sensitive to static electric charges. As a safety precaution, use a grounding wrist strap at all times. Place all electronic components in a static-dissipative surface or static-shielded bag when they are not in the chassis.

1.2 Packing List

- 1 x FPC 17”/18W”/21W” Series Touch Panel PC
- 1 x DVD-ROM contains the followings:
  - User’s Manual (this manual in PDF file)
  - Ethernet driver and utilities
  - VGA drivers and utilities
  - Audio drivers and utilities
  - Chipset drivers
- Other major components include the followings:
  - 60W/84W adapter and power cord

If any of the above items is damaged or missing, contact your retailer.

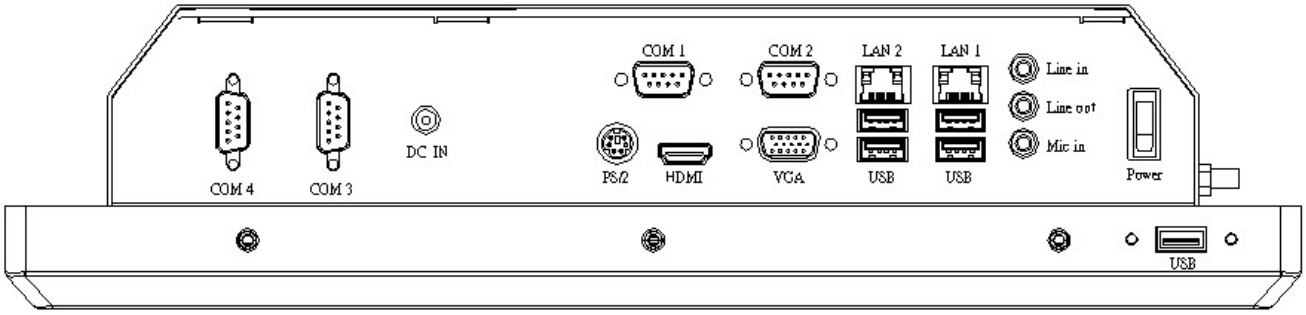
1.3 System Specifications

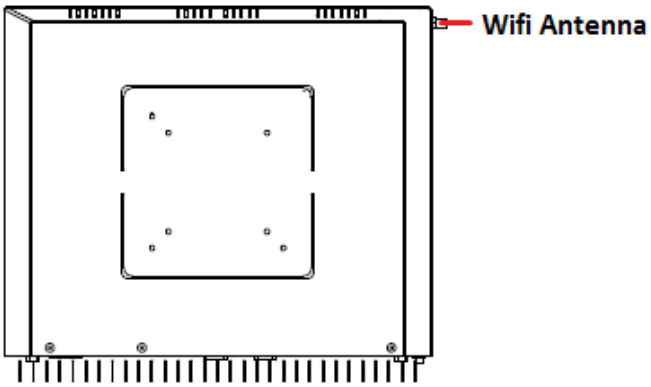
Component			
	FPC-1707	FPC-18W07	FPC-21W07
Mother Board	EMX-CDV		
CPU	Onboard Intel® Atom™ D2550 1.86GHz CPU		
CPU Cooler (Type)	Fanless Heatsink		
Memory	Two 204-pin SODIMM Supports Up to 4GB DDR3 1066MHz SDRAM		
System Power Requirements	+12V DC Power Input		
Adapter	Input: 100 ~ 250Vdc/ 47 ~ 63Hz Output: 60W Adapter (12V @ 5A Adapter)		
Speaker	8Ω 2W*2		
Wireless LAN	optional USB WiFi 802.11b/g/n		
Operating System	Windows 7 Embedded		
Storage			
Hard Disk Drive	2.5” HDD		
Solid State Drive	2.5” SSD		
Panel			
LCD Panel	17" SXGA TFT LCD 1280*1024 G170EG01	18.5" WXGA TFT LCD 1366*768 G185XW01	21.6" FHD TFT LCD 1920*1080 M216H1
LCD Control Board	Built-in		
B/L Inverter/Converter	QF132V4.20S	GP1502-09C	GP1904-03B0
Touch Screen	5-wire Resistive		
Touch Controller	USB Touch Control Board EETI		
External I/O			
PS/2 KB & Mouse	1 x PS/2 KB & MS		
Serial Port	4 x COM D-sub 9 pin RS-232		
USB Port	5 x USB		
Video Port	1 x VGA D-sub 15 pin, 1 x HDMI		
Audio Port	1 x Line out , 1 x Mic in , 1 x Line in (Azalia Realtek ALC269)		
LAN Port	2 x RJ-45 (Realtek 8111E)		
Switch	1 x Power switch		
Mechanical			
Power Type	AT/ATX, 12V Power DC input		
Power Connector Type	Power switch		

Dimension	387.5mm x 346mm x 76.6mm	459.5mm x 309mm x 79.6mm	526mm x 346.5mm x 80.4mm
Weight	6.14Kgs	5.77Kgs	7.32Kgs
Color	Black		
Fanless	Fanless		
Reliability			
EMI Test	Class B		
Safety	CE FCC		
Operating Temperature	0°C ~ 40°C		
Operating Humidity	0%~90% relative humidity, non-condensing		
Storage Temperature	-10~50°C		

1.4 System Overview

1.4.1 Rear View



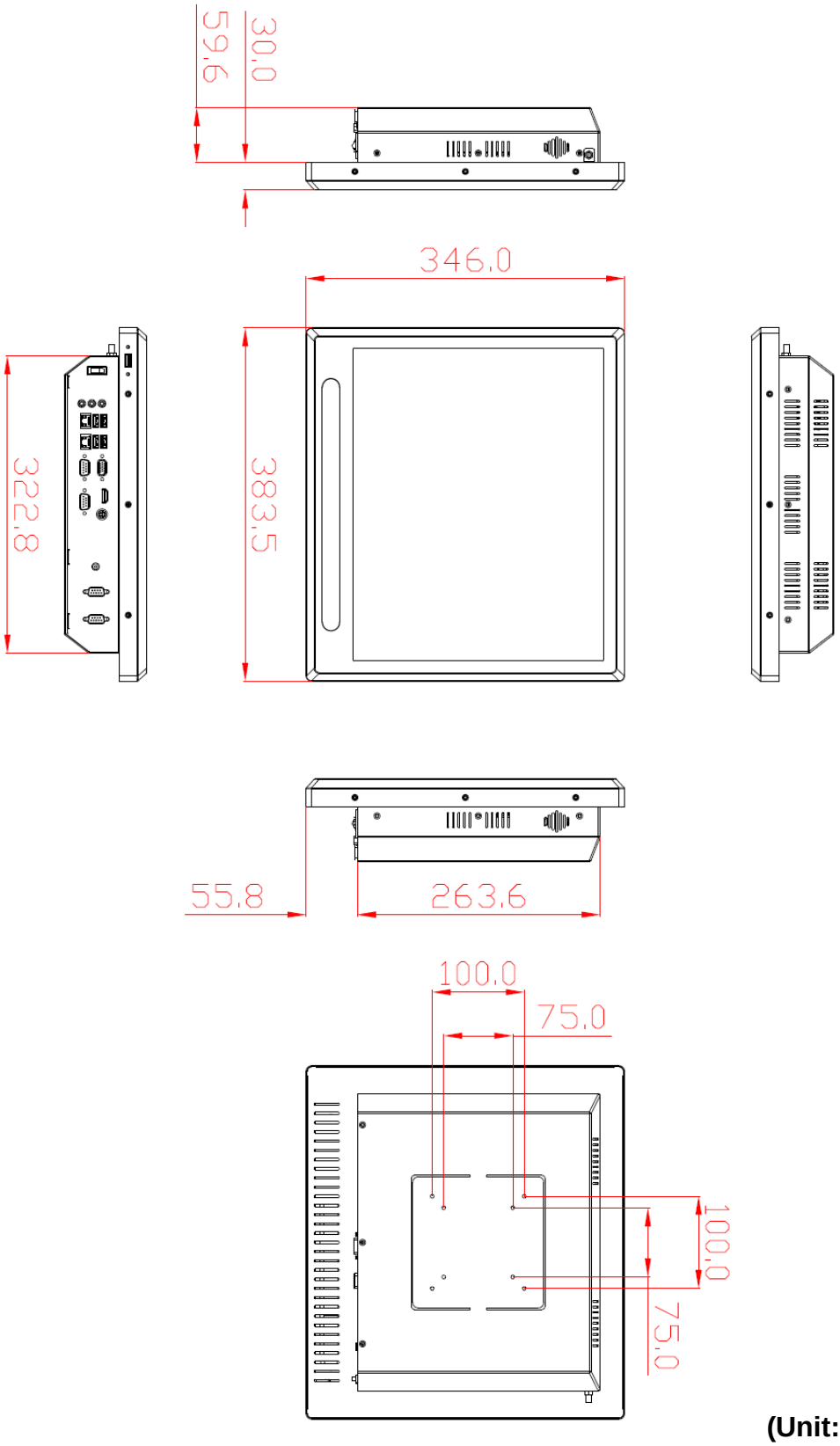


Connectors

Label	Function	Note
COM1~4	Serial port connector1~4	DB-9 male connector
HDMI	HDMI connector	
VGA	VGA connector	DB-15 female connector
PS/2	PS/2 connector	
LAN1	RJ-45 Ethernet 1	
LAN2	RJ-45 Ethernet 2	
LINE IN	Line-in audio jack	
LINE OUT	Line-out audio jack	
Power	System power switch	
USB	USB connector	
DC-IN	DC power-in connector	
MIC IN	Microphone-in audio jack	

1.5 System Dimensions

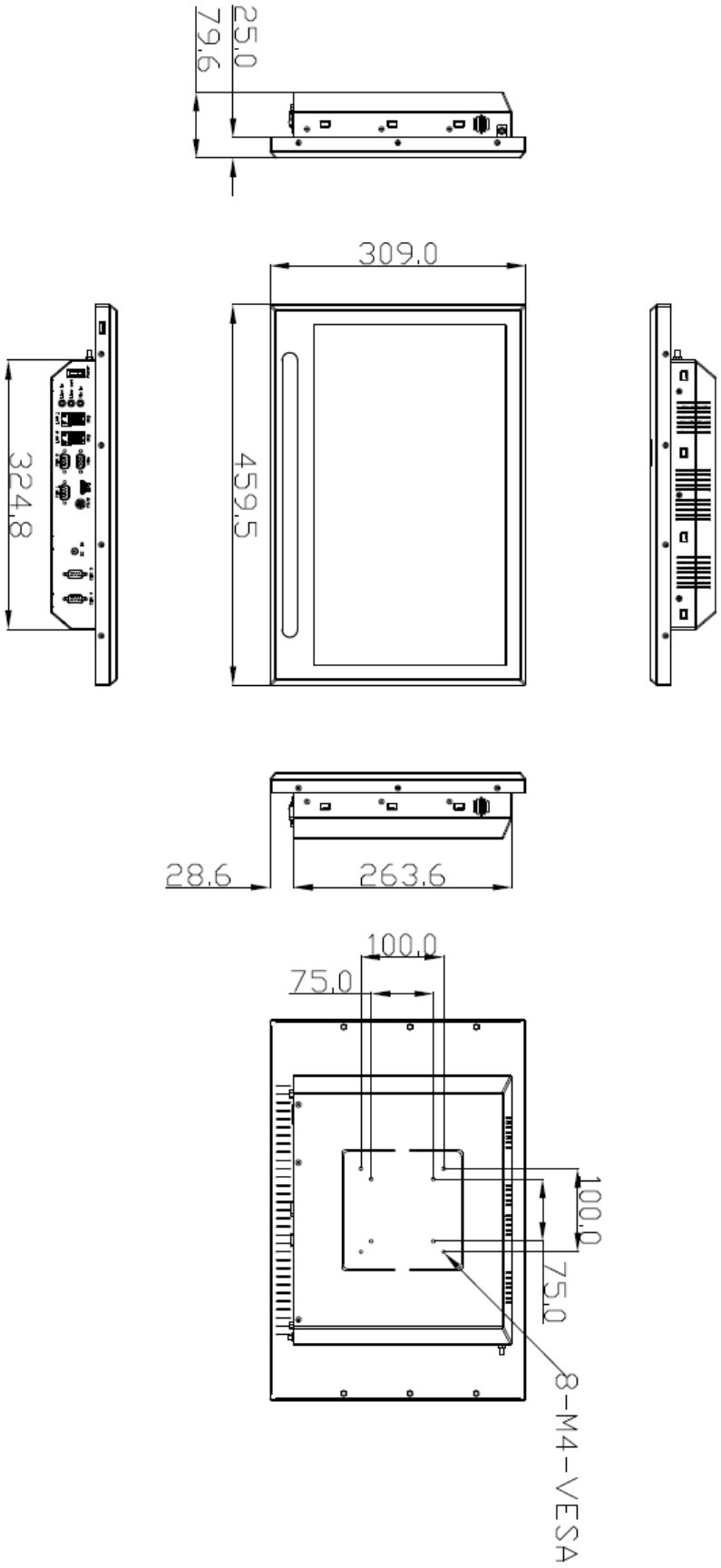
1.5.1 FPC-1707



(Unit: mm)

Warning: Use suitable mounting apparatus to avoid risk of injury.

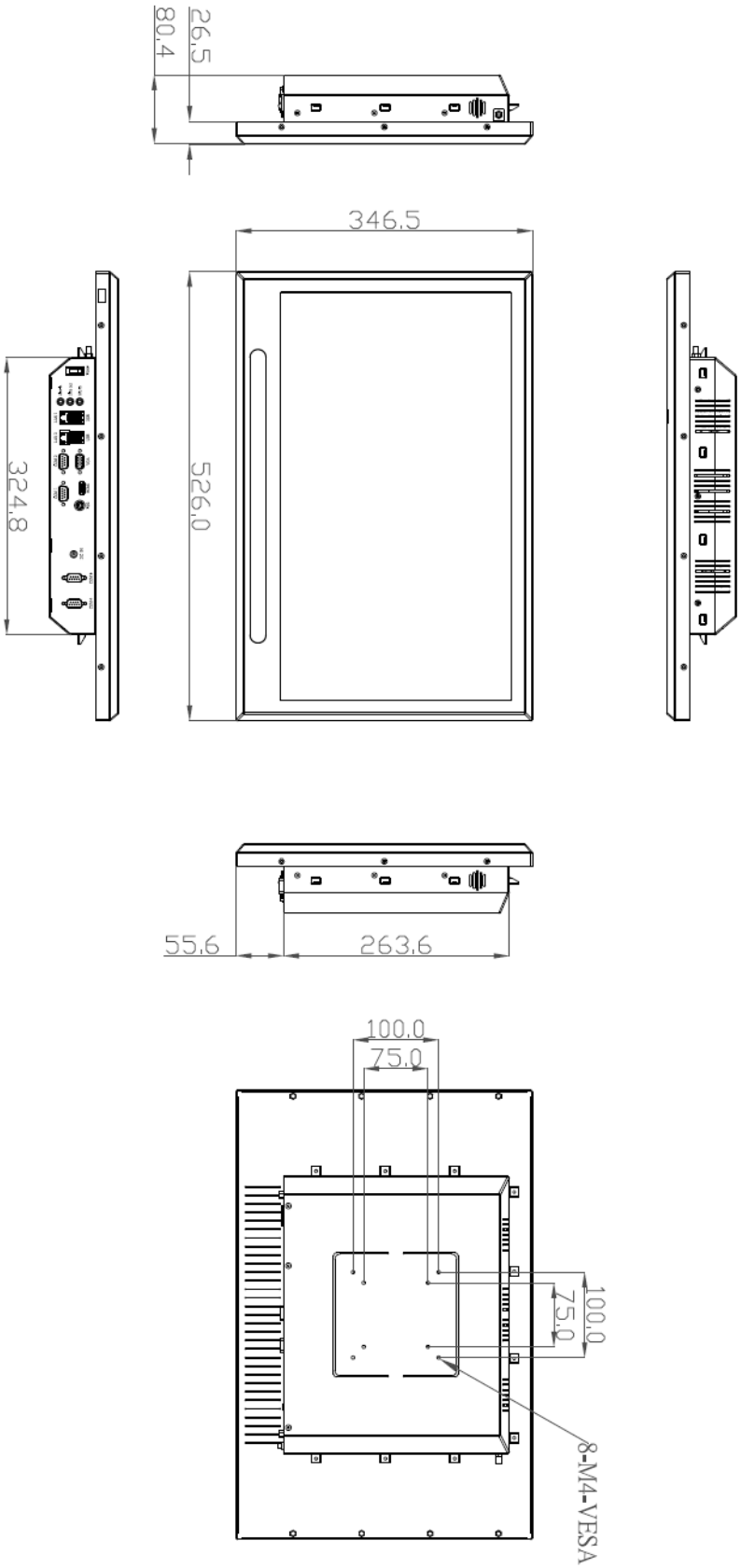
1.5.2 FPC-18W07



(Unit: mm)

Warning: Use suitable mounting apparatus to avoid risk of injury.

1.5.3 FPC-21W07



(Unit: mm)

Warning: Use suitable mounting apparatus to avoid risk of injury.

2. Hardware Configuration

For advanced information, please refer to:

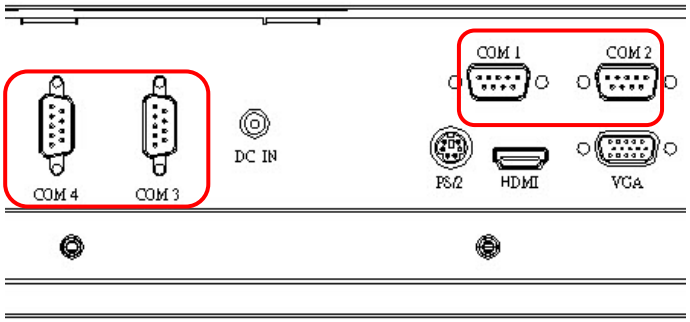
1- FPC 17”/18W”/21W” Series Quick Reference Guide or User’s Manual

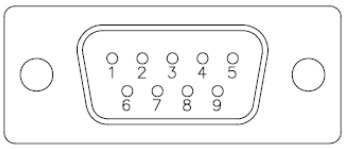
Note: If you need more information, please visit our website:

http://www.avalue.com.tw

2.1 FPC 17”/18W”/21W” Series connector mapping

2.1.1 Serial Port connector 1~4 (COM1~4)



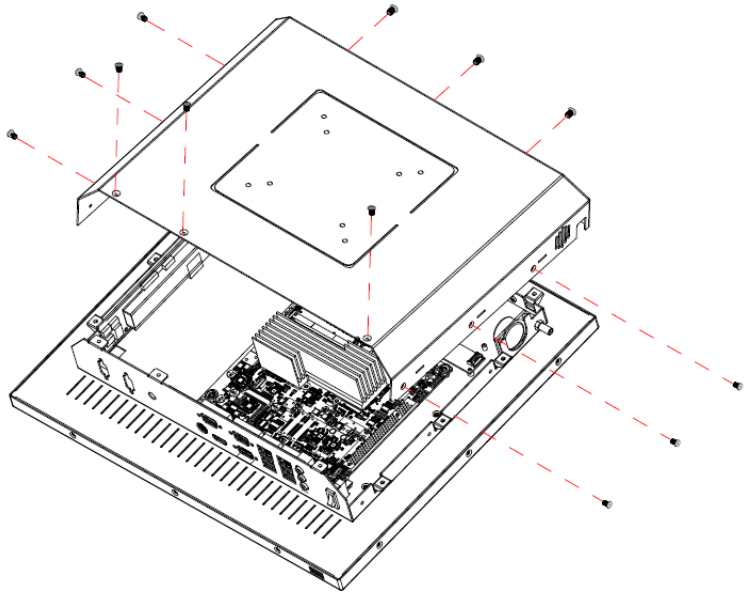


Signal	PIN	PIN	Signal
NDCD_D-	1	6	NDSR-
NRXD_D-	2	7	NRTS-
NTXD_D-	3	8	NCTS-
NDTR_D-	4	9	NRI-
GND	5		

2.2 Installing Hard Disk & Memory

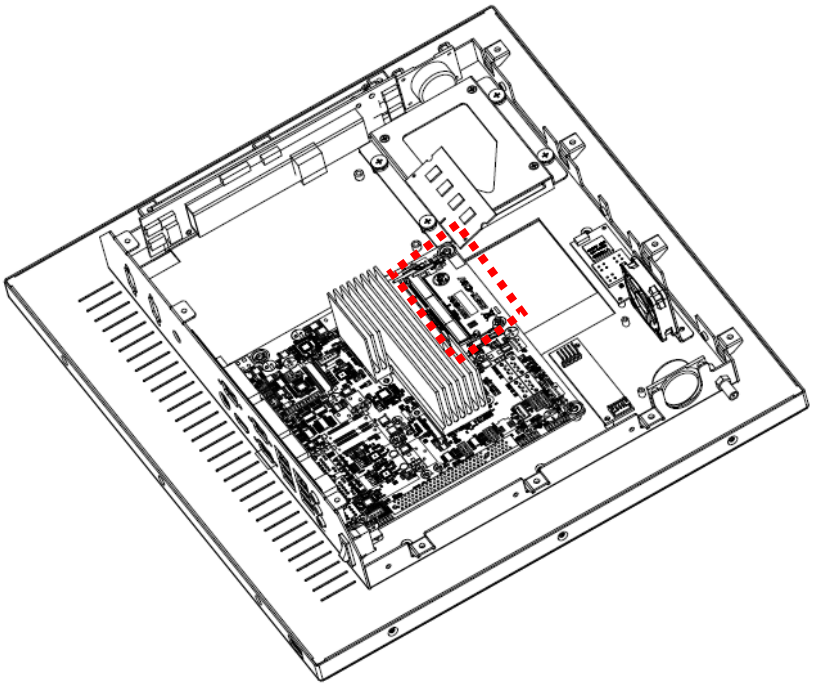
WARNING: Make sure the power is completely cut off before opening the device.

Remove 12 screws as indicated below to open the back of the chassis.

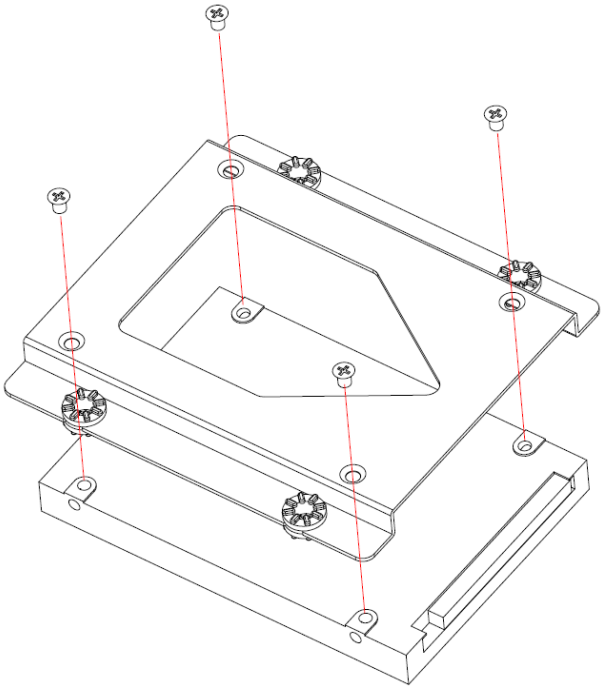


2.2.1 Install Memory

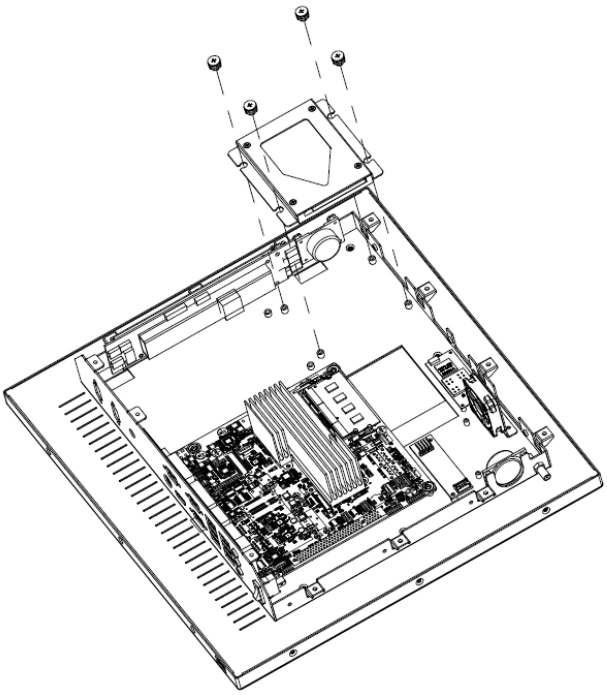
Step 1. Insert the SODIMM into the memory socket.



2.2.2 Install HDD



Step 1. Attach the HDD bracket to the 2.5” SATA HDD by means of 4 screws as shown above, and then connect HDD data and power cables.



Step 2. Position the HDD bracket & 2.5” SATA HDD assembly into the chassis and lock with 4 screws as indicated above.